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Catalytically active systems of cobalt complexes with water-soluble phthalocyanines

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Abstract

© ISUCT Publishing. The work reports catalytic properties of series of cobalt phthalocyanines peripherally substituted with consistently changing sulfonated fragments. Data on heterogenization of cobalt phthalocyaninates onto organic and inorganic polymers are provided. Comparing catalytic activity of the macrocycles in dependence on structure and peripheral substituent as well as polymer carrier's type is given. Application of cobalt phthalocyanine's sulfonic acids for fine synthesis of thiuram E upon both homogeneous and heterogeneous catalysis is shown to be prospective.

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Keywords

Catalyst, Cobalt phthalocyaninate, Efficiency, Heterogenization, Modification, Sulfo-group

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